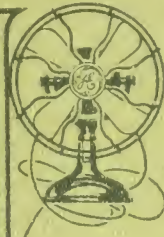


9 4197

ELECTRIC FANS



1914

GENERAL ELECTRIC COMPANY
SCHENECTADY, N.Y.



ELECTRIC FANS



GENERAL ELECTRIC COMPANY
SUPPLY DEPARTMENT

JANUARY 1914

BULLETIN NO. A4197

Copyright, 1913, by General Electric Company

CONTENTS

| STYLE | ALTERNATING CURRENT FANS | PAGE | DIRECT CURRENT FANS | PAGE |
|--|---|------------|----------------------------|------------|
| DESK AND BRACKET TYPE | { Eight-inch | 8, 9 | Eight-inch | 8, 9 |
| | { Twelve-inch | 10, 11 | Twelve-inch | 10, 11 |
| | { Sixteen-inch | 10, 11 | Sixteen-inch | 10, 11 |
| OSCILLATING TYPE | { Eight-inch | 8, 9 | Eight-inch | 8, 9 |
| | { Twelve-inch | 12, 13 | Twelve-inch | 12, 13 |
| | { Sixteen-inch | 12, 13 | Sixteen-inch | 12, 13 |
| RESIDENCE TYPE | { Twelve-inch | 14, 15 | Twelve-inch | 14, 15 |
| | { Sixteen-inch | 14, 15 | Sixteen-inch | 14, 15 |
| TELEPHONE BOOTH TYPE | Eight-inch | 8, 9 | Eight-inch | 8, 9 |
| CEILING TYPE | { Thirty-two-inch | 16, 22, 23 | Thirty-two-inch | 16, 22, 23 |
| | { Fifty-two-inch | 16-19, 24 | Fifty-six-inch | 22, 23 |
| | | | Fifty-eight-inch | 20, 21, 24 |
| VENTILATING OUTFITS | { Twelve-inch | 26 | Twelve-inch | 26, 27 |
| | { Sixteen-inch | 26 | Sixteen-inch | 26, 27 |
| NAVY TYPE | { * | | Twelve-inch | 28 |
| | { * | | Sixteen-inch | 28 |
| Guarantee | | | | 29 |
| Fan Applications | | | | 29 |
| Special Finishes | | | | 29 |
| Group Installations | | | | 29 |
| Blades for Ceiling Fans | | | | 30 |
| Extension Switch Key for Ceiling Fans | | | | 30 |
| Electrolier Attachments | | | | 30 |
| Special Fan Motors | | | | 30 |
| Table of Pipe Lengths for Ceiling Fans | | | | 33, 40 |
| Column Fans | | | | 30 |
| Range of Voltage and Frequencies | | | | 30 |
| Weights (Net and Shipping) | | | | 33 |
| Lubrication | | | | 31 |
| Dimensions (Ceiling and Exhaust Fans) | | | | 32 |
| Renewable Parts | | | | 31 |
| Attaching Cord and Plug | | | | 31 |
| Caution | | | | 31 |
| Supply Parts { Eight-inch Fans | | | | 34, 35 |
| | { Twelve- and Sixteen-inch Fans | | | 36, 37 |
| | { Ceiling Fans | | | 38, 39 |
| Wiring Devices | | | | 40, 41 |

* Not made for alternating current.

I N T R O D U C T I O N



TWENTY years ago the GENERAL ELECTRIC COMPANY placed upon the market the first commercially successful type of electric fan. Each successive year has witnessed improvements in design and refinements in manufacture so that after two decades of engineering experience the Company is offering to the trade the latest and most improved development in fan apparatus.

¶ The following pages will, it is hoped, furnish convincing evidence that the GENERAL ELECTRIC COMPANY has anticipated the popular market demand and provided a fan to meet every need and desire.

¶ The object of this catalogue is to place before our customers, both old and prospective, sufficient information to enable them to order correctly. Technical information has purposely been omitted. Catalogue numbers are provided for each style and rating of motor and should invariably be used to facilitate identification.

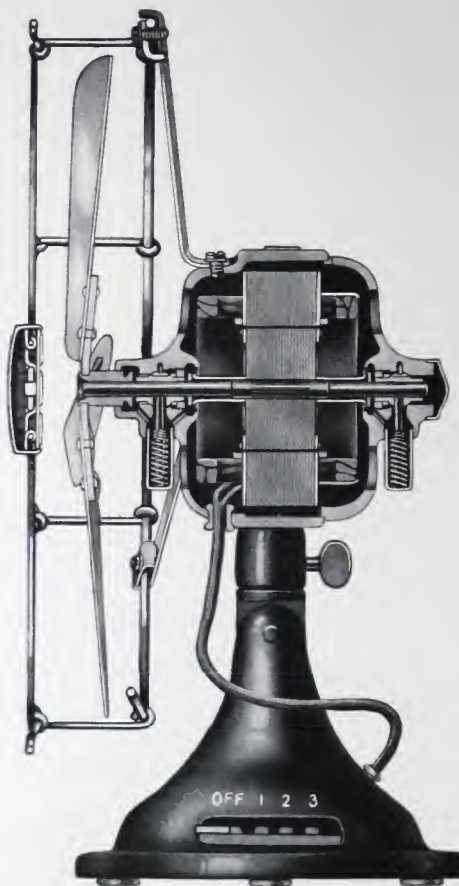
J21-83415-0000

NEW DESIGNS

The line of GENERAL ELECTRIC FAN MOTORS for the season of 1914 comprises types not heretofore listed. The strong demand of the trade has made necessary the development of the 32-inch ceiling fans and the Navy fan. The 12-inch alternating and direct current desk-bracket fans have been greatly reduced in size and weight without sacrifice in output or efficiency. Distinctive features of design are maintained.

ALTERNATING CURRENT FANS

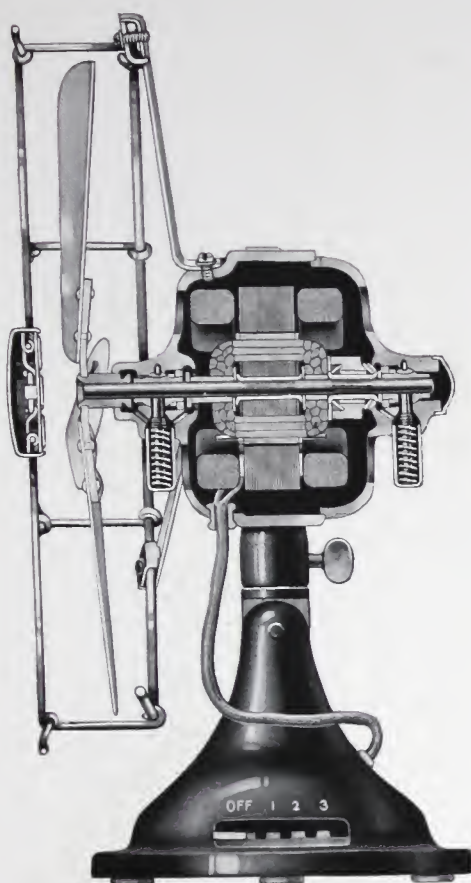
It is a notable fact that the electrical design adopted for all General Electric alternating current fan motors is one which avoids the necessity of sliding contacts or other automatic features. This fact alone insures quiet operation, long life and highly satisfactory operating characteristics. The rotor and stator are built up of electrical sheet steel stampings and accurately ground to size, thereby insuring a uniform air gap. The rotor carries no insulated windings, while the stator receives a series of coils carefully insulated and securely wedged in place. Shafts are made from special high grade machinery steel and carefully ground to size, while the bearing linings are produced from high grade bronze. All bearings are automatically lubricated. Oil-returns are provided to prevent oil throwing. The fan blades are designed upon exact mathematical principles, and the angles are carefully determined to give the greatest possible displacement of air for the power expended. Speed-control is obtained by means of a lever switch in the base of the motor. The accompanying illustrations show the internal construction, which is substantially the same for all alternating current motors.



Section of Twelve-Inch Alternating
Current Fan

DIRECT CURRENT FANS

The direct current fan motor embodies many of the mechanical features found in the alternating current motor. The armature is of the drum type and built up of selected soft steel laminations, while the field is of the conventional bi-polar design with well insulated windings. The commutator segments are made from high grade hard drawn copper and carefully insulated from the shell and from one another by selected mica gauged to a uniform thick-



Section of Twelve-Inch Direct
Current Fan

ness. Brush-holders used in all direct current fan motors are of the cartridge type, while the brushes are square in section and made from a high grade electrographite material, absolutely uniform in mechanical and electrical characteristics and possessing splendid lubricating and wearing qualities. Carbon dust is never found in the armature windings. The relation and general arrangement of component parts of the direct current and alternating current motors are substantially the same.

OSCILLATING FANS

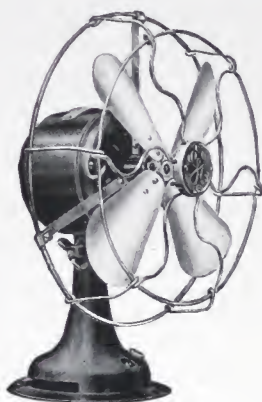
All oscillating fans offered by this Company are of the geared type and therefore do not depend upon air reaction for their oscillating movement. The oscillating mechanism mounted on the rear cap consists of a double worm reduction substantially built and enclosed in a dust-proof box. The disk operated from the slow speed shaft which projects through the lower section of the gear box carries the connecting rod. This rod swings at one end upon a stud fastened to the stationary support, and at the other upon a crank pin which is adjustable with relation to the center of the crank disk. The adjustment of the crank pin

can be conveniently accomplished while the fan is in operation and provides a ready means for regulating the angle of oscillation and for instantly stopping the oscillating movement in case it is desired. The entire mechanism is packed in a high grade non-fluid oil which requires renewal but once a season. The amount of energy consumed is negligible. All oscillating fans can be adapted to wall mounting without the use of tools and with the same ease as obtains in the case of the non-oscillating motor. A feature which is both distinctive and novel is found in the addition of carrying handle clearly shown in the illustrations.

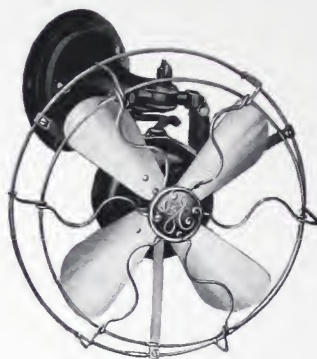
EFFICIENCY OF MANUFACTURE

High grade materials, proven designs and a highly efficient manufacturing organization built upon long years of experience are a strong guarantee of quality. Every component part of the fan is carefully inspected during the various processes of manufacture, while the finished product is inspected by a specialist before being sent to the shipping room.

EIGHT-INCH FANS—ALTERNATING AND DIRECT CURRENT



Alternating Current
Desk-Bracket Fan



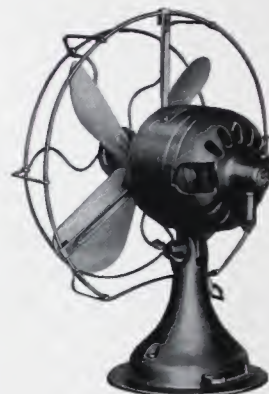
Telephone Booth Fan



Alternating Current Fan
Bracket Mounting



Alternating Current Oscillating
Fan, Bracket Mounting



Direct Current
Desk-Bracket Fan



Direct Current
Oscillating Fan



Alternating Current
Oscillating Fan



Direct Current Oscillating
Fan, Bracket Mounting

EIGHT-INCH FANS—ALTERNATING AND DIRECT CURRENT

The eight-inch drawn-frame fans are continued for the season of 1914. This construction is especially durable and combines minimum weight with great strength. They are not mere toys since they possess all important features of design which characterize the larger fans. This fan has a hinged mounting only. The swivel feature is omitted because of the extreme lightness of the fan. Details of construction, inspection, and test receive just as careful attention as the more powerful, higher priced fans.

TELEPHONE BOOTH

Ventilation of the telephone booth during the summer season is effectively accomplished by a simple adaptation of the eight-inch fan motor. The small fan body suspended on coil springs from a special mounting fulfills every requirement of the service—noiseless operation, gentle breeze, no vibration, and minimum current consumption.

SPECIFICATIONS

ADJUSTMENT. Hinged joint for desk-bracket fans. Swivel joint for telephone booth fans.

SPEEDS. Three operating speeds with "off" position.

SWITCH. Improved lever design with notched guide insuring positive setting for each speed.

FINISH. Motor body and base finished in marine lacquer. Double ring brass guard and four-blade brass fan dipped and lacquered.

DESK-BRACKET AND TELEPHONE BOOTH FANS

FOR ALTERNATING CURRENT

| CAT. NO. | | | | | |
|--------------|-----------------|--------|-------|---------------------|-------|
| Desk-Bracket | Telephone Booth | Cycles | Volts | Watts at Fast Speed | Speed |
| *76373 | *76374 | 25 | 110 | 20 | 1350 |
| 75955 | 75952 | 40 | 120 | 33 | 1900 |
| 78707 | 78711 | 50 | 100 | 25 | 1350 |
| 78708 | 78712 | 50 | 110 | 25 | 1350 |
| 78709 | 78713 | 50 | 200 | 27 | 1300 |
| 78710 | 78714 | 50 | 220 | 27 | 1300 |
| 75956 | 75953 | 60 | 110 | 25 | 1540 |
| 75957 | 75954 | 60 | 220 | 30 | 1540 |

FOR DIRECT CURRENT

| | | | | | |
|-------|-------|----|-----|----|------|
| 75960 | 75958 | .. | 110 | 18 | 1600 |
| 75961 | 75959 | .. | 220 | 18 | 1600 |

OSCILLATING FANS

FOR ALTERNATING CURRENT

| Cat. No. | | | | | |
|--------------|--------|-------|---------------------|-------|--|
| Desk-Bracket | Cycles | Volts | Watts at Fast Speed | Speed | |
| *78780 | 25 | 110 | 23 | 1350 | |
| 78781 | 40 | 120 | 36 | 1900 | |
| 78782 | 50 | 100 | 28 | 1350 | |
| 78783 | 50 | 110 | 28 | 1350 | |
| 78784 | 50 | 200 | 30 | 1300 | |
| 78785 | 50 | 220 | 30 | 1300 | |
| 78786 | 60 | 110 | 28 | 1540 | |
| 78787 | 60 | 220 | 33 | 1540 | |

FOR DIRECT CURRENT

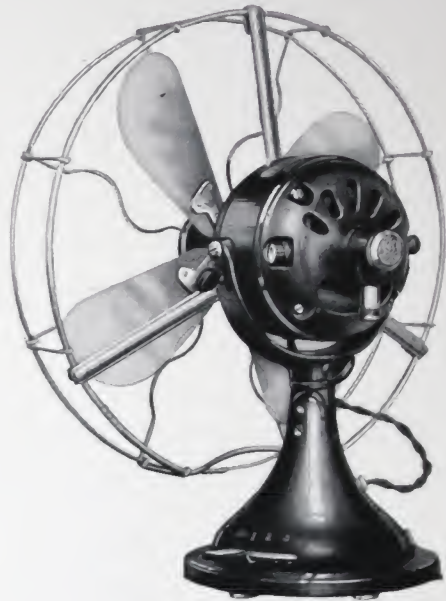
| | | | | |
|-------|----|-----|----|------|
| 78792 | .. | 110 | 20 | 1600 |
| 78793 | .. | 220 | 20 | 1600 |

* Built in series commutating type only.
Order by catalogue number.
For weights see page 33.

TWELVE-INCH AND SIXTEEN-INCH ALTERNATING AND DIRECT
CURRENT DESK-BRACKET FANS



Alternating Current Fan
Bracket Mounting



Direct Current
Desk-Bracket Fan



Alternating Current
Desk-Bracket Fan



Direct Current Fan
Bracket Mounting

TWELVE-INCH AND SIXTEEN-INCH ALTERNATING AND DIRECT CURRENT DESK-BRACKET FANS

The adaptability of the desk-bracket fan and the numerous ways in which it can be used have made it extremely popular. The ease of conversion from desk to bracket type without the use of a screwdriver or other tool is notable. The twelve-inch and sixteen-inch designs have swivel and trunnion mounting permitting the movement of the fan horizontally or vertically through a wide angle. Correct proportioning of the electrical design has permitted a considerable reduction in size and weight of the twelve-inch motors, hence they can be handled much more easily and transportation charges are correspondingly lessened.

SPECIFICATIONS

ADJUSTMENT. Combination hinge and swivel joint with trunnion mounting.

SPEEDS. Three operating speeds with "off" position.

SWITCH. Improved lever design with notched guide insuring positive setting for each speed.

FINISH. Motor body, yoke and base finished in lustrous black enamel. Double ring brass guard and four-blade brass fan dipped and lacquered.

TWELVE-INCH FOR ALTERNATING CURRENT

| Cat. No. | Cycles | Volts | Watts at Fast Speed | Speed |
|----------|--------|-------|------------------------|-------|
| * 34267 | 25 | 110 | 60 | 1300 |
| 33594 | 40 | 120 | 75 | 1600 |
| 78715 | 50 | 100 | 55 | 1300 |
| 78716 | 50 | 110 | 55 | 1300 |
| 78717 | 50 | 200 | 55 | 1300 |
| 78718 | 50 | 220 | 55 | 1300 |
| 34017 | 60 | 110 | 50 | 1500 |
| 34018 | 60 | 220 | 50 | 1500 |
| 34019 | 133 | 110 | 90 | 1650 |

FOR DIRECT CURRENT

| Cat. No. | Volts | Watts at Fast Speed | Speed |
|----------|-------|------------------------|-------|
| 34003 | 110 | 47 | 1600 |
| 34004 | 220 | 47 | 1600 |

SIXTEEN-INCH FOR ALTERNATING CURRENT

| Cat. No. | Cycles | Volts | Watts at Fast Speed | Speed |
|----------|--------|-------|------------------------|-------|
| 58294 | 25 | 110 | 95 | 1250 |
| 58295 | 40 | 120 | 135 | 1600 |
| 78719 | 50 | 100 | 85 | 1250 |
| 78720 | 50 | 110 | 85 | 1250 |
| 78721 | 50 | 200 | 85 | 1250 |
| 78722 | 50 | 220 | 85 | 1250 |
| 34021 | 60 | 110 | 85 | 1400 |
| 34022 | 60 | 220 | 85 | 1400 |
| 34023 | 133 | 110 | 145 | 1600 |

FOR DIRECT CURRENT

| Cat. No. | Volts | Watts at Fast Speed | Speed |
|----------|-------|------------------------|-------|
| 34005 | 110 | 80 | 1450 |
| 34006 | 220 | 80 | 1450 |

* Built in series commutating type only.
Order by catalogue number.
For weights see page 33.

TWELVE-INCH AND SIXTEEN-INCH ALTERNATING AND DIRECT
CURRENT OSCILLATING FANS



Twelve-Inch Oscillator
Bracket Mounting



Twelve-Inch Oscillator



Sixteen-Inch Oscillator



Sixteen-Inch Oscillator
Bracket Mounting

TWELVE-INCH AND SIXTEEN-INCH ALTERNATING AND DIRECT CURRENT OSCILLATING FANS

The oscillating fan, as its name implies, provides a constantly changing distribution of air currents. It is essentially a desk-bracket type of fan with the addition of a few auxiliary devices for producing the oscillating movement.

SPECIFICATIONS

ADJUSTMENT. Hinge joint and two-bearing ring support for motor body.

SPEEDS. Three operating speeds with "off" position.

SWITCH. Improved lever design with notched guide insuring positive setting for each speed.

FINISH. Motor body, supporting ring and base finished in lustrous black enamel.

Double ring brass guard and four-blade brass fan dipped and lacquered.

NOTE.—All oscillating fans are provided with handles to facilitate carrying.

TWELVE-INCH FOR ALTERNATING CURRENT

| Cat. No. | Cycles | Volts | Watts at Fast Speed | Speed |
|----------|--------|-------|------------------------|-------|
| *75433 | 25 | 110 | 65 | 1300 |
| 75431 | 40 | 120 | 85 | 1600 |
| 78727 | 50 | 100 | 60 | 1300 |
| 78734 | 50 | 110 | 60 | 1300 |
| 78735 | 50 | 200 | 60 | 1300 |
| 78736 | 50 | 220 | 60 | 1300 |
| 75423 | 60 | 110 | 55 | 1500 |
| 75424 | 60 | 220 | 55 | 1500 |
| 75427 | 133 | 110 | 95 | 1650 |

FOR DIRECT CURRENT

| Cat. No. | Volts | Watts at Fast Speed | Speed |
|----------|-------|------------------------|-------|
| 60559 | 110 | 50 | 1550 |
| 60560 | 220 | 50 | 1550 |

SIXTEEN-INCH FOR ALTERNATING CURRENT

| Cat. No. | Cycles | Volts | Watts at Fast Speed | Speed |
|----------|--------|-------|------------------------|-------|
| 75434 | 25 | 110 | 100 | 1250 |
| 75432 | 40 | 120 | 140 | 1600 |
| 78737 | 50 | 100 | 90 | 1300 |
| 78738 | 50 | 110 | 90 | 1300 |
| 78739 | 50 | 200 | 90 | 1300 |
| 78740 | 50 | 220 | 90 | 1300 |
| 75425 | 60 | 110 | 90 | 1400 |
| 75426 | 60 | 220 | 90 | 1400 |
| 75429 | 133 | 110 | 160 | 1600 |

FOR DIRECT CURRENT

| Cat. No. | Volts | Watts at Fast Speed | Speed |
|----------|-------|------------------------|-------|
| 60561 | 110 | 85 | 1475 |
| 60562 | 220 | 85 | 1475 |

* Built in series commutating type only.
Order by catalogue number.
For weights see page 33.

TWELVE-INCH AND SIXTEEN-INCH ALTERNATING AND DIRECT
CURRENT RESIDENCE FANS



Twelve-Inch Residence Fan
Desk-Bracket Type



Sixteen-Inch Residence Fan Oscillating
Type, Bracket Mounting



Sixteen-Inch Residence Fan
Desk-Bracket Type

TWELVE-INCH AND SIXTEEN-INCH ALTERNATING AND DIRECT CURRENT RESIDENCE FANS

The residence fan is designed for extreme quietness in running. It has a wide field of usefulness in hospitals, bedrooms, offices, theaters, libraries and similar places. Residence fans are furnished in the desk-bracket and oscillating types and differ from the corresponding standard designs heretofore described only in having a slow speed operating characteristic and a six-blade fan.

The sixteen-inch size is a new development and is offered to meet a growing demand for a fan combining quiet running with large total air disturbance.

SPECIFICATIONS

ADJUSTMENT. Combination hinge and swivel joint with trunnion mounting for desk-bracket type. Hinge joint and two-bearing ring support for oscillating type.

SPEEDS. Three operating speeds with "off" position.

SWITCH. Improved lever design with notched guide insuring positive setting for each speed.

FINISH. Motor body, yoke (desk-bracket type), ring (oscillating type) and base finished in lustrous black enamel. Double ring brass guard and four-blade brass fan dipped and lacquered.

TWELVE-INCH

FOR ALTERNATING CURRENT

| CAT. NO. | | | | | WATTS AT FAST SPEED | |
|--------------|-------------|--------|-------|-------|---------------------|-------------|
| Desk-Bracket | Oscillating | Cycles | Volts | Speed | Desk-Bracket | Oscillating |
| 76361 | 78771 | 25 | 110 | 1100 | 57 | 57 |
| 76362 | 78772 | 40 | 120 | 1100 | 56 | 56 |
| 78723 | 78773 | 50 | 100 | 1100 | 57 | 57 |
| 78724 | 78774 | 50 | 110 | 1100 | 57 | 57 |
| 78725 | 78775 | 50 | 200 | 1100 | 57 | 57 |
| 78726 | 78776 | 50 | 220 | 1100 | 57 | 57 |
| 76363 | 78777 | 60 | 110 | 1100 | 54 | 54 |
| 76364 | 78778 | 60 | 220 | 1100 | 54 | 54 |

FOR DIRECT CURRENT

| | | | | | | |
|-------|-------|----|-----|------|----|----|
| 78790 | 78788 | .. | 110 | 1100 | 44 | 44 |
| 78791 | 78789 | .. | 220 | 1100 | 44 | 44 |

SIXTEEN-INCH

FOR ALTERNATING CURRENT

| CAT. NO. | | | | | WATTS AT FAST SPEED | |
|--------------|-------------|--------|-------|-------|---------------------|-------------|
| Desk-Bracket | Oscillating | Cycles | Volts | Speed | Desk-Bracket | Oscillating |
| 146064 | 146073 | 25 | 110 | 1050 | 95 | 95 |
| 146065 | 146074 | 40 | 120 | 1050 | 95 | 95 |
| 146066 | 146075 | 50 | 100 | 1100 | 70 | 70 |
| 146067 | 146076 | 50 | 110 | 1100 | 70 | 70 |
| 146068 | 146077 | 50 | 200 | 1100 | 70 | 70 |
| 146069 | 146078 | 50 | 220 | 1100 | 70 | 70 |
| 146070 | 146079 | 60 | 110 | 1050 | 70 | 70 |
| 146071 | 146080 | 60 | 220 | 1050 | 70 | 70 |

FOR DIRECT CURRENT

| | | | | | | |
|--------|--------|----|-----|------|----|----|
| 146060 | 146062 | .. | 110 | 1100 | 65 | 65 |
| 146061 | 146063 | .. | 220 | 1100 | 65 | 65 |

Order by catalogue number.
For weights see page 33.

CEILING FANS

ALTERNATING CURRENT



HE General Electric alternating current ceiling fan motors are of the induction type and of the simplest construction. They have a deserved reputation for extreme durability. The revolving armature floats on a ball bearing, thus eliminating noise and greatly increasing the efficiency. The fan blades are direct connected to the rotor and permanently set at an angle that will move the largest volume of air with the least current consumption. The automatic lubricating system deserves special mention. Oil is inserted through an oil hole at the top of the motor and conducted to a reservoir at the top of the armature bearing, thence through a duct to the lower oil cup shown in the sectional illustration. The armature spider is provided with a groove which acts as a pump when the fan is in operation. By this means the oil is forced through the bearing into the reservoir at the top, returning through the duct or channel into the lower cup. This circulation continues so long as the motor is in operation. It will be observed that the ball races are immersed in oil at all times.

The 52-inch alternating current ceiling fan is furnished in the plain and ornamental types which differ only in the external casing, finish, speed regulation and hanger equipment.

The 32-inch alternating current ceiling fan is a new development and is designed for lighter service. In all essential characteristics, it is a miniature reproduction of the larger size. This small sweep fan is furnished only in the plain type.

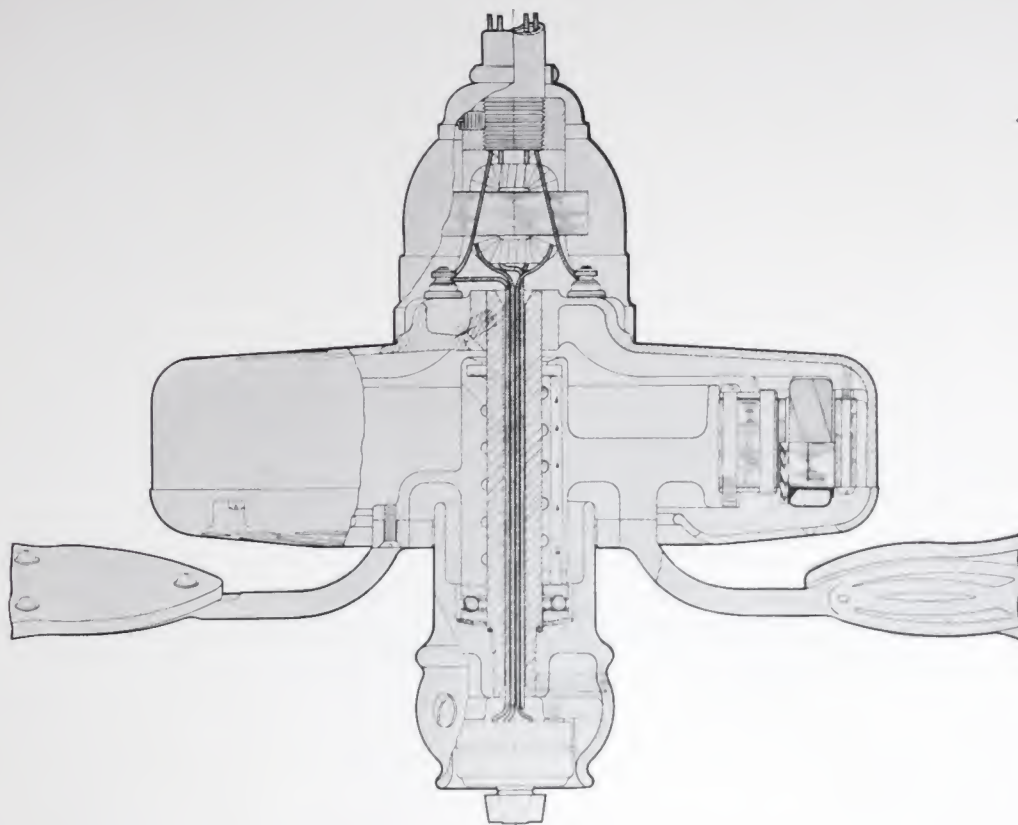
DIRECT CURRENT

The direct current ceiling fan motors are the result of long experience in fan motor design and manufacture and can be ordered with the fullest confidence. Their operating characteristics are beyond criticism.

The 58-inch direct current ceiling fans are practically identical with those on the market last season. They have the same type of bearing and automatic lubricating device as that of the alternating current ceiling fans. The design is furnished in the plain and ornamental types.

The 56-inch direct current ceiling fan is of two-pole construction with bearings lubricated by grease cups. It is a highly successful fan and is offered to meet an urgent demand for one of low price. The design is less refined than that of the 58-inch fan, yet highly pleasing in effect. Its construction is solid and durable and it is built to last a lifetime. The motor is furnished only in the plain type.

The 32-inch direct current ceiling fan is a new development and is specially adapted to small rooms, hallways, etc. It is symmetrical in shape, small in diameter and very compact, making a neat and attractive appearance. The design employs a two-pole, laminated field structure with drum armature. The frame is totally enclosed, with brush-holders at the top. Lubrication is supplied by grease cups. The motor is essentially of the plain type, but lends itself admirably to a variety of special and ornate finishes.



Section of Fifty-Two-Inch Alternating Current Ceiling Fan

Alternating and direct current ceiling fans of all types are completely assembled and carefully tested on the proper current before they are packed for shipment. The fan blades which are made from a carefully selected grade of white wood are accurately balanced to insure a steadily operating motor. The 1914 line of ceiling fans contains fans for all conditions of service.

CEILING FANS FOR ALTERNATING CURRENT
FIFTY-TWO-INCH SWEEP—PLAIN TYPE—TWO-SPEED



Fifty-Two-Inch Alternating Current Ceiling Fan
Plain Type—Two-Speed



Fifty-Two-Inch Alternating Current Ceiling Fan
Ornamental Type—Three-Speed

**CEILING FANS FOR ALTERNATING CURRENT
FIFTY-TWO-INCH SWEEP—PLAIN TYPE—TWO-SPEED**

FINISH. Motor body finished in lustrous black enamel; bottom cover, blade flanges, switch support and canopies finished in streaked oxidized copper. Wooden blades finished in light mahogany.

| Cat. No. | Cycles | Volts | Speeds |
|----------|--------|-------|---------|
| 62364 | 25 | 110 | 175-225 |
| 62365 | 40 | 120 | 175-225 |
| 62366 | 50 | 105 | 150-200 |
| 62367 | 50 | 115 | 150-200 |
| 62368 | 50 | 220 | 150-200 |
| 46208 | 60 | 105 | 175-225 |
| 44986 | 60 | 115 | 175-225 |
| 44987 | 60 | 220 | 175-225 |

ACCESSORIES. Cat. Nos. include insulated hanger, ceiling canopy, ceiling hook with lag screw end and one set of four wooden blades.

NOTE.—Suspension pipe is not regularly furnished with this type of fan. If suspension pipe is desired, $\frac{3}{4}$ inch plain japanned iron conduit, threaded at both ends, will be supplied at a moderate price. (See table on pages 33 and 40.)

FIFTY-TWO-INCH SWEEP—ORNAMENTAL TYPE—THREE-SPEED

FINISH. All metal parts, including rope tube casing for suspension pipe, finished in streaked oxidized copper. Wooden blades finished in light mahogany.

| Cat. No. | Cycles | Volts | Speeds |
|----------|--------|-------|-------------|
| 62359 | 25 | 110 | 125-175-225 |
| 62360 | 40 | 120 | 125-175-225 |
| 62361 | 50 | 105 | 115-150-200 |
| 62362 | 50 | 115 | 115-150-200 |
| 62363 | 50 | 220 | 115-150-200 |
| 46209 | 60 | 105 | 125-175-225 |
| 44988 | 60 | 115 | 125-175-225 |
| 44989 | 60 | 220 | 125-175-225 |

ACCESSORIES. Cat. Nos. include insulated hanger, ceiling canopy, ceiling hook with lag screw end and one set of four wooden blades, also one length suspension pipe and one length rope-tube casing for it.

NOTE.—The suspension pipe supplied with the ornamental ceiling fans is composed of standard $\frac{3}{4}$ inch plain iron conduit threaded at each end, with a covering of rope-tube casing. The overall dimension of motor and pipe assembled is approximately $4\frac{1}{2}$ feet. When hung from a 12-foot ceiling the switch key is approximately $7\frac{1}{2}$ feet from the floor. (See table on pages 33 and 40 for other lengths.)

Order by catalogue number.

Dimensions, page 33; weights, page 33.

CEILING FANS FOR DIRECT CURRENT



Fifty-Eight-Inch Direct Current Ceiling Fan
Plain Type—Single-Speed



Fifty-Eight-Inch Direct Current Ceiling Fan
Ornamental Type—Single- or Three-Speed

CEILING FANS FOR DIRECT CURRENT
FIFTY-EIGHT-INCH SWEEP—PLAIN TYPE—SINGLE-SPEED

FINISH. Body finished in lustrous black enamel. Bottom cover, blade flanges, switch-support and canopies finished in streaked oxidized copper. Wooden blades finished in light mahogany.

| Cat. No. | Volts | Speed | Fast Speed |
|----------|-------|-------|------------|
| 34007 | 110 | 200 | 120 |
| 34008 | 220 | 200 | 125 |

ACCESSORIES. Cat. Nos. include insulated hanger, ceiling canopy, ceiling hook with lag screw ends and one set of four wooden blades.

NOTE.—Suspension pipe is not regularly furnished with this type of fan. If it is desired $\frac{3}{4}$ inch plain japanned iron conduit, threaded at both ends, will be supplied at a moderate price. (See table, pages 33 and 40.)

FIFTY-EIGHT-INCH SWEEP—ORNAMENTAL TYPE
SINGLE- AND THREE-SPEED

FINISH. All metal parts, including rope-tube casing for suspension pipe, finished in streaked oxidized copper. Wooden blades finished in light mahogany.

SINGLE-SPEED

| Cat. No. | Volts | Speed | Watts at Fast Speed |
|----------|-------|-------|------------------------|
| 37642 | 110 | 200 | 125 |
| 37643 | 220 | 200 | 125 |

THREE-SPEED

| Cat. No. | Volts | Speeds | Watts at Fast Speed |
|----------|-------|-------------|------------------------|
| 59433 | 110 | 100-150-200 | 125 |
| 59434 | 220 | 100-150-200 | 125 |

ACCESSORIES. Cat. Nos. include insulated hanger, ceiling canopy, ceiling hook with lag screw end and one set of four wooden blades. Also one length suspension pipe and one length rope tube casing for it.

NOTE.—The suspension pipe supplied with the ornamental ceiling fan, is composed of standard $\frac{3}{4}$ inch plain iron conduit, with a covering of rope-tube casing. The overall dimension of motor and pipe, assembled, is approximately $4\frac{1}{2}$ feet. When hung from a 12-foot ceiling the switch key is about $7\frac{1}{2}$ feet from the floor. (See table on pages 33 and 40 for other lengths.)

Order by catalogue number.

Dimensions, page 32; weights, page 33.

CEILING FANS FOR ALTERNATING AND DIRECT CURRENT



Thirty-Two-Inch Alternating Current Ceiling
Fan—Two-Speed



Thirty-Two-Inch Direct Current Ceiling
Fan—Single-Speed



Fifty-Six-Inch Direct Current Ceiling Fan—Single-Speed

CEILING FANS FOR ALTERNATING CURRENT
THIRTY-TWO-INCH SWEEP—PLAIN TYPE—TWO-SPEED

| Cat. No. | Cycles | Volts | Speeds | Watts at Fast Speed |
|----------|--------|-------|---------|------------------------|
| 146230 | 25 | 110 | 300-200 | 85 |
| 146231 | 40 | 120 | 350-250 | 85 |
| 146232 | 50 | 105 | 300-200 | 85 |
| 146233 | 50 | 115 | 300-200 | 85 |
| 146234 | 50 | 220 | 300-200 | 85 |
| 146235 | 60 | 105 | 350-250 | 85 |
| 146236 | 60 | 115 | 350-250 | 85 |
| 146237 | 60 | 220 | 350-250 | 85 |

FOR DIRECT CURRENT
THIRTY-TWO-INCH SWEEP—PLAIN TYPE—SINGLE-SPEED

| Cat. No. | Volts | Speed | Watts at Fast Speed |
|----------|-------|-------|------------------------|
| 146210 | 110 | 350 | 75 |
| 146211 | 220 | 350 | 75 |

FIFTY-SIX-INCH SWEEP—PLAIN TYPE—SINGLE SPEED

| Cat. No. | Volts | Speed | Watts at Fast Speed |
|----------|-------|-------|------------------------|
| 79820 | 110 | 225 | 130 |
| 79821 | 220 | 225 | 130 |

The following pertains to all motors listed above.

FINISH. All metal parts including ceiling canopy finished in lustrous black enamel. Wooden blades finished in light mahogany.

ACCESSORIES. Cat. Nos. include insulated hanger, ceiling canopy, ceiling hook with lag screw end, and one set of four wooden blades.

NOTE.—Suspension pipe is not regularly furnished with these types of fans. If suspension pipe is desired, $\frac{1}{2}$ inch (for 32-inch motor) or $\frac{3}{4}$ inch (for 56-inch motor) plain japanned iron conduit, threaded at both ends will be supplied at a moderate price. (See table on pages 33 and 40.)

Order by catalogue number.

Dimensions, page 32; weights, page 33.

ELECTROLIER ATTACHMENTS

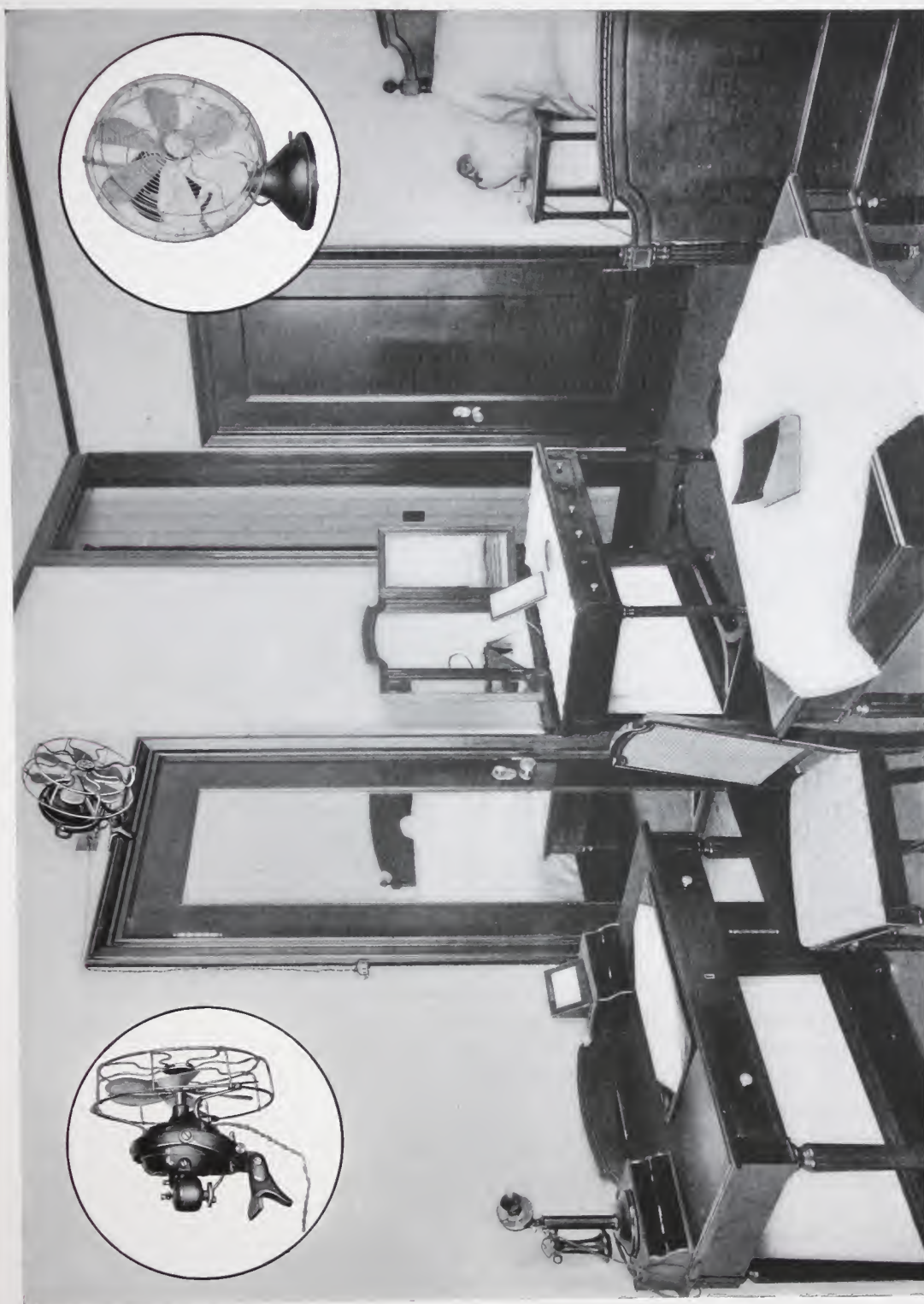


Fifty-Eight-Inch Direct Current Ceiling Fan
with Electrolier Attachment



Fifty-Two-Inch Alternating Current Ceiling Fan
with Electrolier Attachment

See page 30.

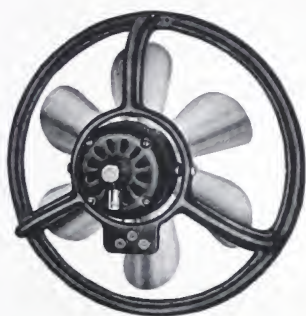


Special Mounting for Door and Window Casing and Protective Guard for Hotels and Residences

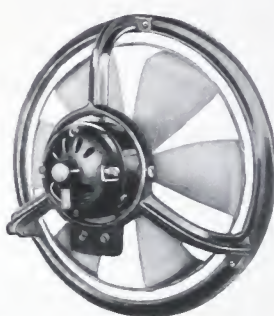
SMALL VENTILATING OUTFITS

MECHANICAL ventilation has long since been recognized as an essential adjunct to comfort. Dependence on natural draft for the removal of hot air, gases, dust, odors, etc., is not reliable because of extraneous influences. To meet the demand for a small ventilating outfit at a minimum cost, the General Electric Company offers the serviceable designs as here illustrated. To obtain the best results, it is essential that the fan exhaust directly into open spaces and not against wind or other back pressure. All intake or exhaust pipes should be avoided so far as possible. The G-E type of blade is recommended where there is no back pressure while the High Pressure type of blade should be employed in case of a short flue, and wherever the outfit is fastened to a light partition or bulk-head.

These ventilating outfits find a ready market in small industrial establishments, restaurants, grill rooms, kitchens, laboratories, lavatories, vaults and similar places.



Alternating Current Fan with
General Electric Type Blades



Direct Current Fan with High
Pressure Type Blades



Front View Showing High
Pressure Type Blades

TWELVE-INCH AND SIXTEEN-INCH ALTERNATING AND DIRECT CURRENT EXHAUST FANS

FINISH. Motor body and supporting ring finished in lustrous black enamel. General Electric type blades furnished in dipped and lacquered brass. High Pressure type blades finished in black japan.

ALTERNATING CURRENT OUTFITS

| CAT. NO. | | Volts | Cycles | SPEED | | WATTS AT FAST SPEED | |
|----------|---------|-------|--------|---------|---------|---------------------|---------|
| 12-Inch | 16-Inch | | | 12-Inch | 16-Inch | 12-Inch | 16-Inch |
| *35307 | 58298 | 110 | 25 | 1700 | 1500 | 60 | 75 |
| 35308 | *58299 | 120 | 40 | 1700 | 1600 | 80 | 150 |
| 104231 | 104235 | 100 | 50 | 1300 | 1250 | 65 | 80 |
| 104232 | 104236 | 110 | 50 | 1300 | 1250 | 65 | 80 |
| 104233 | 104237 | 200 | 50 | 1300 | 1250 | 65 | 80 |
| 104234 | 104238 | 220 | 50 | 1300 | 1250 | 65 | 80 |
| 34025 | 34029 | 110 | 60 | 1500 | 1450 | 65 | 95 |
| 34026 | 34030 | 220 | 60 | 1500 | 1450 | 65 | 95 |

NOTE.—Catalogue number includes motor complete with 6-blade fan and supporting ring together with a separate starting box with which is combined a three-speed controller. The starting box is essential to the satisfactory operation of the motor.

* Built in series commutating type only.

TWELVE-INCH AND SIXTEEN-INCH ALTERNATING AND DIRECT CURRENT EXHAUST FANS

DIRECT CURRENT OUTFITS

| CAT. NO. | | Volts | SPEED | | WATTS AT FAST SPEED | |
|----------|---------|-------|---------|---------|---------------------|---------|
| 12-Inch | 16-Inch | | 12-Inch | 16-Inch | 12-Inch | 16-Inch |
| 34009 | 34011 | 110 | 1600 | 1550 | 65 | 120 |
| 34010 | 34012 | 220 | 1600 | 1550 | 65 | 120 |

NOTE.—Catalogue numbers include motor complete with 6-blade fan and supporting ring. Starting box or speed controller are not included since neither is essential to the satisfactory operation of the motor. A speed controller designed for separate wall mounting can be furnished if desired.

SPEED CONTROLLERS

FOR DIRECT CURRENT OUTFITS

| Cat. No. | For Fan Size in Inches | Volts |
|----------|---------------------------|-------|
| 34034 | 12 | 110 |
| 34035 | 12 | 220 |
| 34036 | 16 | 110 |
| 34037 | 16 | 220 |

NOTE.—These controllers are finished in lustrous black enamel. Connections to motor are clearly indicated in diagram pasted to the back of each controller box.

Order by catalogue number.

Dimensions, page 32; weights and packing data, page 33.

EXHAUST FANS

The exhaust fans listed above may be readily adapted to ceiling mounting by a slight modification of the rear bearing. A simple form of step bearing is provided which insures proper lubrication and consequently long life.

Some manufacturers recommend the standard exhaust fan for ceiling mounting; this, however, is not considered good policy by the General Electric Company. The slight additional cost of the step bearing is greatly offset by more satisfactory and economical operation and also by increased life of the wearing parts.

Exhaust fans for service with shaft in positions other than horizontal are special and will be built to order.

High Pressure type of blades are interchangeable with the G-E type of blade and the same catalogue numbers will apply. Unless specified on the order the G-E type of blade will be furnished.

TWELVE-INCH AND SIXTEEN-INCH DIRECT CURRENT NAVY FANS



HE Navy fan is a new development and especially designed to meet all conditions of service and operation as imposed by the Government specifications (17-A-3). The fan is arranged for vertical or horizontal mounting with an adjustable axis of revolution. Bearings are self-aligning and self-lubricating. A suitable starting and regulating switch with non-absorbent mounting is located in the base or pedestal. The fans are thoroughly moisture-proof, while all fittings are non-corrosive.



Direct Current Twelve-Inch Fan



Direct Current Sixteen-Inch Fan

SPECIFICATIONS

ADJUSTMENT. Combination hinge and swivel joint with trunnion mounting.
SPEEDS. Three operating speeds with "off" position.

SWITCH. Improved lever design with notched guide insuring positive setting for each speed.

FINISH. Motor body, yoke and base finished in lustrous black enamel. Double ring brass guard and four-blade brass fan dipped and lacquered.

TWELVE-INCH DESK-BRACKET TYPE

| | |
|----------|--------|
| Cat. No. | Volts |
| 150395 | 80-125 |
| 150396 | 220 |

Order by catalogue number.

SIXTEEN-INCH DESK-BRACKET TYPE

| | |
|----------|--------|
| Cat. No. | Volts |
| 150397 | 80-125 |
| 150398 | 220 |

GENERAL INFORMATION

FAN APPLICATIONS



HE sixteen-inch fan is designed particularly for service in large rooms, stores, restaurants, etc., where a high velocity discharge is the most effective. It should never be selected for residence use or for places where a powerful fan with attendant noise is objectionable.

The twelve-inch fan is designed for rooms and enclosures of medium size where a moderately strong air velocity is desirable. Noise is reduced to a degree consistent with general operating characteristics, and a well diffused breeze.

The eight-inch fan operates with remarkable quietness and provides an alternative for those places where the strong breezes from the larger fans are objectionable. They are extremely popular in the home and on the desk in the private office.

The ceiling fan is universally employed in locations where it is desirable to remove a very large volume of air at a moderate velocity. They are suitable for large offices, stores, restaurants and theaters.

SPECIAL FINISHES

All modern and thoroughly progressive hotels and restaurants, stores, offices, show-rooms, etc., demand fan motors finished to harmonize with their elaborately appointed interiors, and also to match hardware finishes, etc. To meet the exacting requirements of the trade, the General Electric Company has provided space and modern equipments to facilitate the execution of such orders. Prices for fans in special finishes are named only on receipt of full specifications as to types and quantities of fans desired. If practicable samples of finish desired should be submitted with the inquiry or order. It must be recognized that certain parts of the General Electric fans are of cast iron and it is difficult to procure by electro-plate, the exact results in finish which can be procured by similar process on brass. When placing orders for specially finished ceiling fans, care should be taken to specify the desired finish of the wooden blades. Otherwise the blades will be finished to harmonize with the metal parts; that is, with brass, nickel, or other light finishes, blades of natural wood filled and varnished, while with motors of darker finishes blades stained in mahogany will be supplied.

The popular electro-plates and colored enamels are listed below.

ELECTRO-PLATES

Brush brass
Antique or old brass
Sanded oxide brass
Bronze plate
Oxidized bronze
Statuary bronze
Butler silver
Verde antique
Gun metal
Streaked oxidized copper
Nickel
Rose gold

Brush brass
Royal blue
Electro bronze
Satin green
Antique verde
Aluminum
Mosaic gray
Roman gold
White and gold
Light mahogany
Black oxidize
Old brass

COLORED ENAMELS

Antique copper
Mahogany bronze
Statuary bronze
Antique silver
Cinnamon bronze
Pompeiiian bronze
Silver oak
Dark copper
Japanese bronze
Red granite
Marine black
French antique
Pompeiiian verde
Moss green
French bronze
Green bronze
Old ivory
Chocolate brown
Yellow brass
Egg shell white
Oxidized brass
Rose gold
Gilt

GROUP INSTALLATION

Formerly the desk-bracket and ceiling fans were used singly or in small groups, whereas now many modern office buildings, hotels, restaurants, etc., are equipped with fans throughout, installations of from 200 to 500 being not uncommon.

The adaptability of the General Electric fans to all conditions of service and to a variety of special mountings places them in a unique and enviable position.

GENERAL INFORMATION

GROUP INSTALLATION—Continued

Recognizing the growing tendency toward large group installations and with eagerness to assist in the selection of the fan best suited to local conditions, the General Electric Company has stationed fan motor specialists in various parts of the country whose duties are to advise and aid in this new field for development. Trained engineers are also available who will make personal investigations and furnish recommendations and quotations in connection with any new propositions.

BLADES FOR CEILING FANS

The ceiling fans unless otherwise ordered are arranged for a downward discharge of air. When so ordered the blades can be furnished for upward discharge. This is a great advantage in meat markets and places where a downward discharge might disturb papers, as in offices and banks. Fans arranged for upward discharge are not carried in stock but are supplied on special order without extra charge.

EXTENSION SWITCH KEY FOR CEILING FANS

In certain installations it is found desirable to suspend the ceiling fan with blades eight to ten feet from the floor to accommodate electrolier attachments or for the purpose of securing a wider distribution of air without the powerful direct draught. This places the key to the control switch out of reach and would ordinarily involve the installation of some form of side wall control.

In order to avoid all special wiring the General Electric Company offers an extension key which consists of a small rod cut to any convenient length supplied with coupling at one end and a knurled knob or thumb nut at the other.

This extension can be readily attached to the switch stud in place of the key regularly furnished. The knob for convenience should be located approximately seven feet from the floor.

ELECTROLIER ATTACHMENTS

The lower portion of the ceiling fan is particularly well adapted to receive electrolier attachments. Excellent schemes of lighting may be worked out in a manner as suggested. (See page 24.)

Electrolier attachments in all cases are mounted below the blades so as to avoid shadows. They are furnished only on special order, and at an increase in price. They will be packed with fans on request, but fans cannot be shipped with brackets attached. Electrolier brackets for two- and four-light clusters may be readily attached to the thirty-two-inch and fifty-two inch alternating current fans, also to the fifty-eight-inch direct current fans.

A special adapting casting, lead tube and special assembly are necessary to attach electrolier attachments to the thirty-two-inch and fifty-six-inch direct current fans. This work should preferably be done at the factory. Catalogue numbers assigned to ceiling fan motors do not include sockets or any other electrolier fittings.

COLUMN FANS

Column fans for floor or counter installation may be furnished to special order. They are of the same general construction as the corresponding ceiling fan, the only difference being such changes as are necessary to adapt the fan to column mounting.

SPECIAL FAN MOTORS

The list of fan motors given on previous pages of this catalogue includes a rating for the usual commercial circuits. Special fan motors can be furnished for other frequencies within the range twenty-five to one hundred and forty, and for voltages twenty-five to two hundred and fifty, except in the case of the ceiling fan which is not recommended for frequencies exceeding sixty. All special fan motors are necessarily built to order and subject to attending details in production.

GENERAL INFORMATION

RANGE OF VOLTAGES AND FREQUENCIES

All alternating current fans listed will operate satisfactorily over a range of 5 per cent above or below normal voltage or frequency. The sum of the variation in voltage and frequency must not exceed 5 per cent.

All direct current fans listed will operate satisfactorily over a range of 10 per cent above or below normal voltages.

All motors are guaranteed to start positively on low speed point under extreme circuit conditions as indicated above and with fan tilted fully forward or backward.

Ceiling fans for 60 cycle circuits may be operated on 50 cycle circuits, the energy consumed and speed being decreased proportionately.

LUBRICATION

The wick feed oil cups employed by the eight-inch, twelve-inch and sixteen-inch alternating current and direct current desk-bracket fans, also by the thirty-two-inch and fifty-six-inch ceiling fans, are filled with lubricant when the fans are shipped and require attention about once a season. When the cups require replenishing, a high grade non-fluid grease of light consistency is recommended.

The thirty-two-inch, fifty-two-inch alternating current and fifty-eight-inch direct current ceiling fans require a supply of fluid oil immediately after they are installed. An oil can filled with the correct amount of oil for one season's run, is shipped with each motor. It is important that the full contents of this can be supplied to the motor before operating. If, however, after running the motor a short time, it becomes noisy, add a little more oil, being careful not to overflow the cup. A light grade of cylinder oil is recommended. Acid, or vegetable oil, must never be used, since they will either pit the bearings or clog the passages.

It is important that oiling be given careful attention at the start, as it is impossible to make a fan motor run smoothly without proper lubrication.

RENEWABLE PARTS

An accurate record is kept of each and every fan motor shipped by the General Electric Company so that by quoting serial number which is clearly stamped upon the name plate, a fan motor construction may be immediately identified, and duplicated if necessary. Thus it will be seen that all wearing parts may be readily renewed at nominal expense and without returning the fan to the factory. Customers cannot be too careful in quoting serial numbers, and because of carelessness in this connection it is suggested that the type of motor and complete rating be named when ordering supply parts.

ATTACHING CORD AND PLUG

Catalogue numbers do not include cord and plug. When attaching cord and plug are desired the order should so specify. Suitable wiring devices are listed on pages 40 and 41.

CAUTION

Hang the ceiling fan from a solid ceiling with the hanger hook securely imbedded in the timber or beam. This is important for two reasons; first, for safety, as the ceiling fan has considerable weight and second, to prevent vibration and noise due to lack of firm supports.

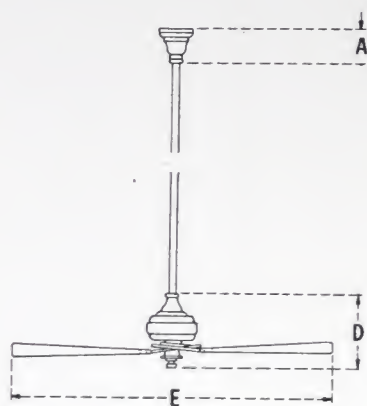
Never take a fan motor apart unless absolutely necessary, as it is undesirable to break the joints and connections.

Connect the motor to a circuit having approximately the same voltage and frequency as that stamped on the name plate.

Inspect the motor from time to time, see that all screws are securely in place, and turn the blades by hand to make sure they are perfectly free.

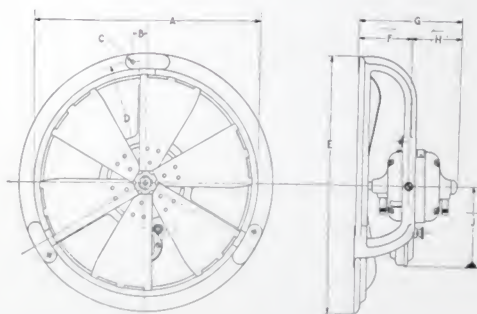
DIMENSIONS

CEILING FANS



| | | A | D | E |
|---------------------|----|----|-----|----|
| Alternating Current | 32 | 5 | 10½ | 32 |
| | 52 | 5⅝ | 13 | 52 |
| Direct Current | 32 | 5 | 8¾ | 32 |
| | 56 | 5⅝ | 12⅝ | 56 |
| | 58 | 5⅝ | 12⅝ | 58 |

EXHAUST FANS



| | A | B | C | D | E | F | G | H | J |
|---------------------|----|-----|----|----|-----|----|----|----|----|
| Alternating Current | 12 | 13⅜ | 1⅛ | 7¼ | 15⅝ | 3⅝ | 7 | 3⅜ | 5¼ |
| | 16 | 17⅝ | 1⅛ | 9¼ | 19⅝ | 4⅜ | 7¾ | 3⅜ | 6¾ |
| Direct Current | 12 | 13⅜ | 1⅛ | 7¼ | 15⅝ | 3⅝ | 7¾ | 3⅜ | 5¼ |
| | 16 | 17⅝ | 1⅛ | 9¼ | 19⅝ | 4⅜ | 7¾ | 3⅜ | 6¾ |

WEIGHTS

ALL FANS ARE SECURELY BRACED IN STRONG WOODEN BOXES

| Size | Type | APPROX. WT. LB. | |
|---------|-------------------------------------|-----------------|----------|
| | | Net | Shipping |
| 8-Inch | Desk-Bracket | AC 6½ | 13½ |
| | | DC 5 | 12 |
| | Oscillator | AC 7½ | 15 |
| | | DC 7 | 13½ |
| | Telephone Booth | AC 6½ | 13½ |
| | | DC 5 | 12 |
| 12-Inch | Desk-Bracket | AC 16¼ | 34 |
| | | DC 14½ | 35 |
| | Oscillator | AC 18 | 36 |
| | | DC 15 | 35 |
| | Residence { Desk-Bracket | AC 16¾ | 35 |
| | | DC 15 | 36 |
| | Oscillator | AC 18½ | 37 |
| | | DC 15½ | 36 |
| | Exhaust { G-E type blades | AC 30 | 58 |
| | | DC 25 | 48 |
| | High Pressure type blades | AC 31 | 59 |
| | | DC 26 | 49 |
| 16-Inch | Desk-bracket | AC 26 | 44 |
| | | DC 25 | 43 |
| | Oscillator | AC 29 | 47 |
| | | DC 28 | 46 |
| | Residence { Desk-Bracket | AC 26½ | 45 |
| | | DC 25½ | 44 |
| | Oscillator | AC 29½ | 48 |
| | | DC 28½ | 47 |
| | Exhaust { G-E type blades | AC 36 | 68 |
| | | DC 33 | 55 |
| | High Pressure type blades | AC 37½ | 69½ |
| | | DC 34½ | 56½ |
| 32-Inch | Ceiling | AC 30 | 49 |
| | | DC 24 | 45 |
| 52-Inch | Ceiling { Plain | AC 55 | 100 |
| | Ornamental | AC 62 | 105 |
| 56-Inch | Ceiling | DC 49 | 78 |
| 58-Inch | Ceiling { Plain | DC 48 | 80 |
| | Ornamental | DC 54 | 85 |

LENGTH OF IRON PIPE FOR CEILING FANS

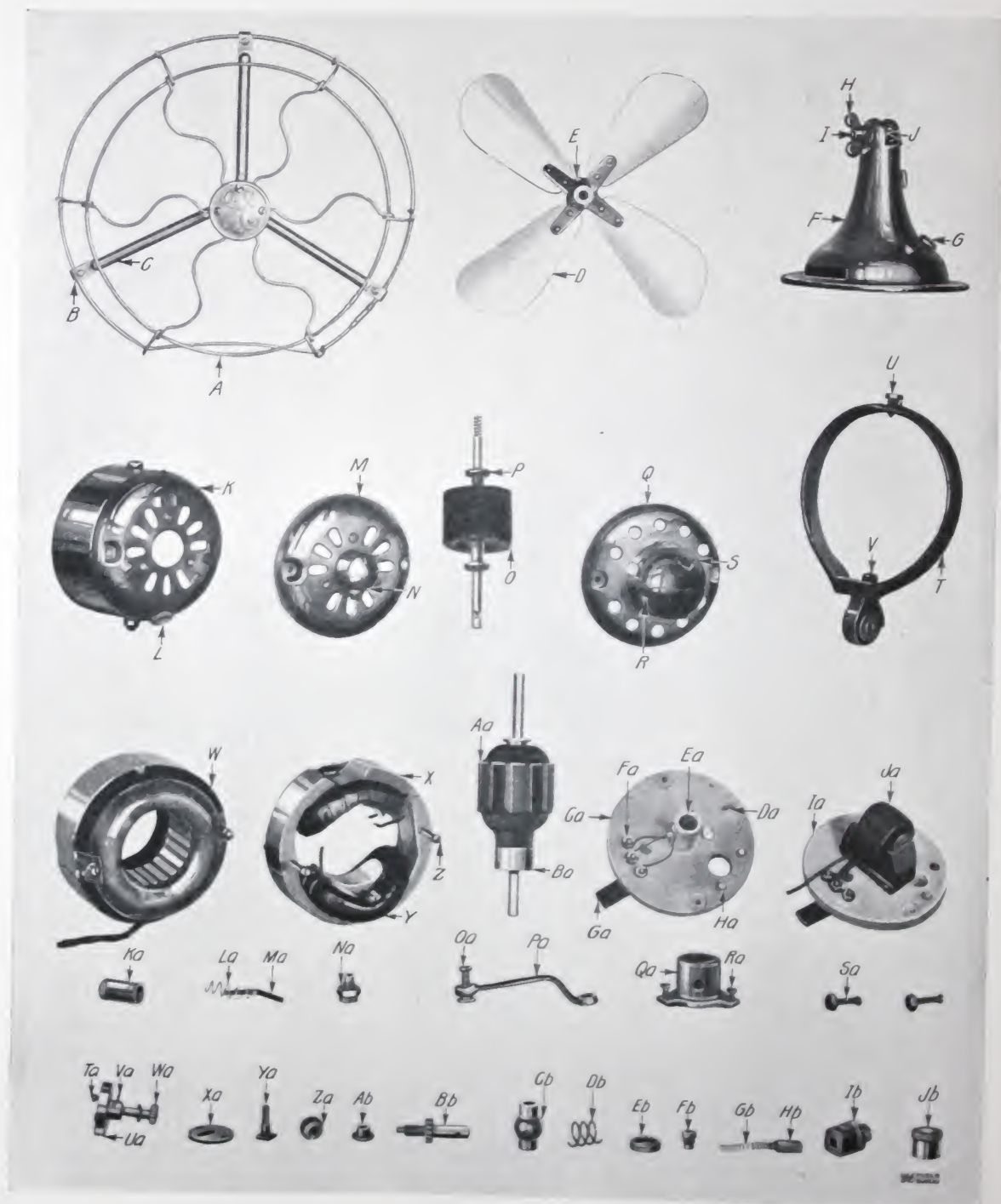
| Height of Ceiling | LENGTH OF PIPE—OVER THREADED ENDS | |
|----------------------|-----------------------------------|---------------------------------------|
| | For 32-Inch AC and DC | For 52-Inch AC and 56-Inch—58-Inch DC |
| 8 ft. 6 in. | nipple | 3 in. |
| 9 ft. | nipple | 9 in. |
| 9 ft. 6 in. | 3 in. | 1 ft. 3 in. |
| 10 ft. | 9 in. | 1 ft. 9 in. |
| 10 ft. 6 in. | 1 ft. 3 in. | 2 ft. 3 in. |
| 11 ft. | 1 ft. 9 in. | 2 ft. 9 in. |
| 11 ft. 6 in. | 2 ft. 3 in. | 3 ft. 3 in. |
| 12 ft. | 2 ft. 9 in. | 3 ft. 9 in. |
| 12 ft. 6 in. | 3 ft. 3 in. | 4 ft. 3 in. |
| 13 ft. | 3 ft. 9 in. | 4 ft. 9 in. |
| 13 ft. 6 in. | 4 ft. 3 in. | 5 ft. 3 in. |
| 14 ft. | 4 ft. 9 in. | 5 ft. 9 in. |
| 14 ft. 6 in. | 5 ft. 3 in. | 6 ft. 3 in. |
| 15 ft. | 5 ft. 9 in. | 6 ft. 9 in. |
| 15 ft. 6 in. | 6 ft. 3 in. | 7 ft. 3 in. |
| 16 ft. | 6 ft. 9 in. | 7 ft. 9 in. |
| 16 ft. 6 in. | 7 ft. 3 in. | 8 ft. 3 in. |
| 17 ft. | 7 ft. 9 in. | 8 ft. 9 in. |
| 17 ft. 6 in. | 8 ft. 3 in. | 9 ft. 3 in. |
| 18 ft. | 8 ft. 9 in. | 9 ft. 9 in. |

When the lengths above specified are used the 52-inch, 56-inch and 58-inch fans will hang approximately 7 ft. 6 in. from the floor, while the 32-inch fans will hang approximately 8 ft. 6 in. from the floor.

The length of the suspension pipe for the 32-inch fan is shortened to give a close ceiling mounting, thus securing a wider and less forceful distribution of air.

NOTE—The 52-inch, 56-inch and 58-inch ceiling fans require ¾ inch iron pipe while the 32-inch fans require ½ inch pipe.

SUPPLY PARTS FOR ALTERNATING AND DIRECT CURRENT EIGHT-INCH
DESK-BRACKET AND OSCILLATING FANS



SUPPLY PARTS FOR ALTERNATING AND DIRECT CURRENT EIGHT-INCH DESK-BRACKET AND OSCILLATING FANS

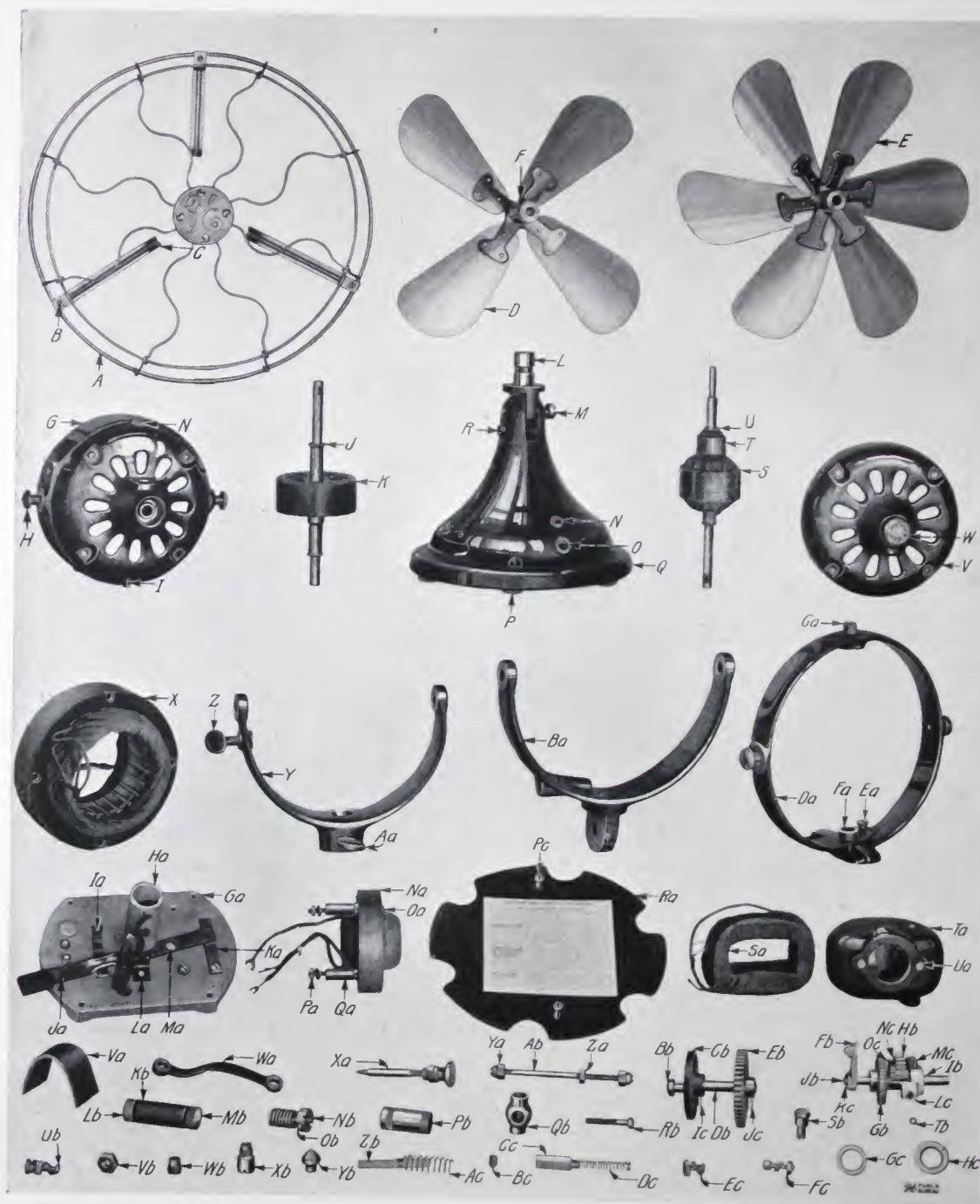
In ordering give name of part, reference letter and serial number of motor

| | List Price | | List Price |
|---|------------|--|------------|
| A Fan guard complete | \$1.25 | †Aa Armature complete, direct current | |
| B Guard clamp and screw . . . per 100 | .50 | 110 volts | \$5.00 |
| C Guard support with screw . . . per 100 | 5.75 | 220 volts | 7.00 |
| D Fan complete | .75 | Ba Commutator | .90 |
| E Set screw for fan per 100 | 2.50 | Ca Regulating switch complete with resistance | |
| F Base with bushing | 1.25 | unit, direct current | .90 |
| G Soft rubber bushing for base . . per 100 | 2.50 | Da Switch contact plate, alternating current | |
| H Thumbnut for hinge bolt | .15 | or direct current per 100 | 1.75 |
| I Hinge bolt per 100 | 5.25 | Ea Resistance unit for direct current motor . . | .25 |
| J Washer for hinge bolt per 100 | 2.00 | Fa Switch contact plug with nut and washer | |
| †K Frame | | alternating or direct current per set | .08 |
| Alternating current desk | 1.00 | Ga Switch lever | .08 |
| Alternating current oscillator | 1.00 | Ha Binding post with nut and washer, alter- | |
| Direct current desk | 1.00 | nating or direct current | .08 |
| Direct current oscillator | 1.00 | Ia Regulating switch complete with coil, | |
| L Rubber bushing for frame . . . per 100 | 2.25 | alternating current | 1.60 |
| M Cap with bearing complete | | Ja Regulating coil only, alternating current | .95 |
| Alternating current | 1.40 | Ka Oil cup | .08 |
| Direct current | 1.75 | La Oil wick spring | .02 |
| N Monogram cap for rear bearing | .03 | Ma Oil wick | .02 |
| *O Armature complete, alternating current . . | 2.00 | Na Oil wick collar and sleeve | .05 |
| P Armature shaft washer per 100 | .35 | Oa Screw and sleeve for connecting rod . . . | .03 |
| Q Oscillator cap complete with oscillator and | | Pa Connecting rod | .45 |
| gear case | | Qa Bearing | .35 |
| Alternating current | 3.85 | Ra Screw for bearing and guard support | |
| Direct current | 4.00 | per 100 | .50 |
| R Bearing for worm wheel shaft | .05 | Sa Screw and spacing nut for base . . . per 100 | 2.00 |
| S Oscillating gear case cap | .40 | Ta Screw for crank disk sliding base . . . per 100 | .35 |
| T Oscillating ring | 2.80 | Ua Crank disk for oscillating mechanism . . | .25 |
| U Pivot screw for oscillating ring | .03 | Va Pinion for crank disk | .50 |
| V Lower pivot | .03 | Wa Worm wheel | .20 |
| †W Field complete for alternating current | | Xa Crank disk plate | .05 |
| motors | | Ya Crank pin per 100 | .75 |
| 60 cycle 110 volts | 7.50 | Za Thumb bolt for crank pin | .03 |
| 60 cycle 220 volts | 10.50 | Ab Bearing sleeve for crank pin | .03 |
| 40 cycle 120 volts | 8.00 | Bb Worm shaft and wheel | .08 |
| 25 cycle 110 volts | 8.50 | Cb Bearing lining | .15 |
| †X Field complete for direct current motors | | Db Bearing spring per 100 | 2.00 |
| 110 volts | 3.50 | Eb Bearing nut per 100 | 2.00 |
| 220 volts | 5.50 | Fb Bearing pivot for oscillator | .03 |
| †Y Field coil for direct current | | Gb Brush spring | .03 |
| 110 volts per set | 2.00 | Hb Brush | .10 |
| 220 volts per set | 4.50 | Ib Brush tube complete | .35 |
| Z Screw for motor cap, alternating current | | Jb Brush-holder cap | .15 |
| or direct current per 100 | .50 | | |

* State desk or oscillator.

† State rating and serial number of motor.

SUPPLY PARTS FOR ALTERNATING AND DIRECT CURRENT TWELVE- AND SIXTEEN-INCH DESK-BRACKET AND OSCILLATING FANS



SUPPLY PARTS FOR ALTERNATING AND DIRECT CURRENT TWELVE- AND SIXTEEN-INCH DESK-BRACKET AND OSCILLATING FANS

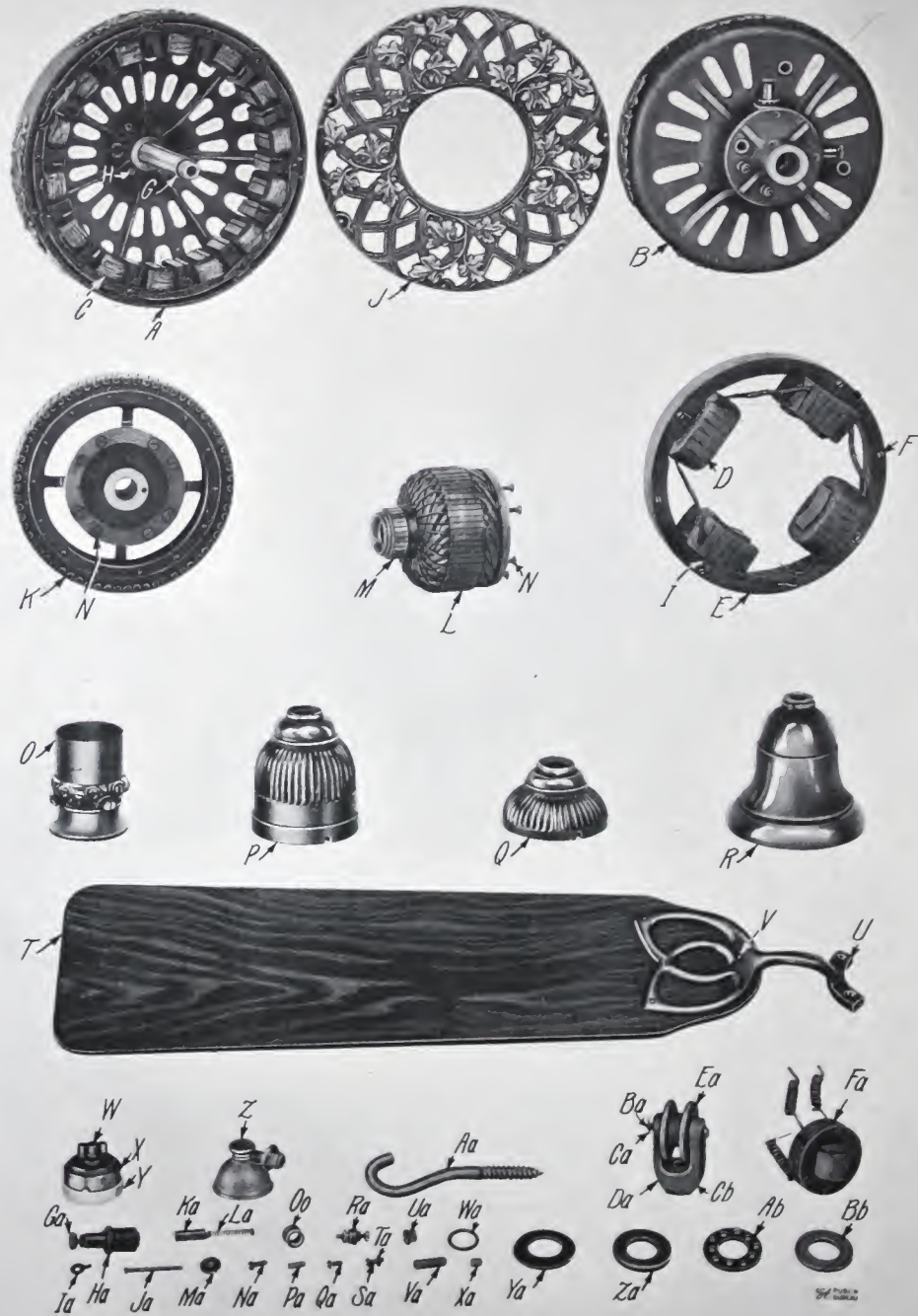
In ordering give name of part, reference letter and serial number of motor

| | | List Price | | | List Price |
|-----|--|--------------|-----|---|----------------|
| *A | Fan guard complete | | Ia | Switch ratchet | per 100 \$1.75 |
| | 12-inch | \$2.00 | Ja | Switch blade | .10 |
| | 16-inch | 3.00 | Ka | Switch contact plate | per 100 1.75 |
| *B | Guard clamping screw | per 100 1.00 | La | Support for resistance unit | .03 |
| *C | Guard support with clips | | Ma | Switch blade pivot | per 100 1.75 |
| | 12-inch | per set .30 | †Na | Regulating coil, alternating current motor | 1.35 |
| | 16-inch | per set .50 | Oa | Screw for regulating coil | per 100 .85 |
| *D | Fan complete with set screw (4 blade) | | Pa | Nut for regulating coil | per 100 .50 |
| | 12-inch | 1.50 | Qa | Spacing sleeve for regulating coil screw | per 100 2.00 |
| | 16-inch | 2.00 | | | |
| *E | Fan complete with set screw (6 blade) | | *Ra | Fiber base plate | .10 |
| | 12-inch | 2.00 | †Sa | Field coil for direct current motor | |
| | 16-inch | 2.50 | | 12-inch 110 volts | per set 2.75 |
| F | Set screw for fan | .03 | | 220 volts | per set 4.00 |
| †G | Motor frame | | | 16-inch 110 volts | per set 3.25 |
| | 12- and 16-inch alternating current | 3.00 | | 220 volts | per set 4.25 |
| | 12-inch direct current | 3.00 | Ta | Oscillating gear case | 2.10 |
| | 16-inch direct current | 3.75 | Ua | Gear case screw | per 100 .75 |
| H | Trunnion screw | .05 | *Va | Field wedge, direct current | per 100 1.75 |
| I | Guard support screw | per 100 1.00 | *Wa | Connecting rod | .50 |
| J | Armature shaft washer | per 100 .35 | Xa | Spring pin complete for trunnion adjustment | .20 |
| *K | Armature complete for alternating current motors | 3.00 | Ya | Cap nut for field stud | .04 |
| L | Swivel stud | .60 | Za | Clamping nut for field stud | per 100 .60 |
| M | Swivel stud clamping screw | .02 | Ab | Field stud | per 100 1.75 |
| N | Soft rubber bushing for field leads | per 100 2.50 | Bb | Crank disk screw | per 100 3.50 |
| O | Soft rubber bushing for attaching cord | per 100 2.50 | Cb | Crank disk | .50 |
| P | Soft rubber foot for base | per 100 2.50 | Db | Crank disk shaft | .10 |
| *Q | Base with screws and bushing | | Eb | Main gear | .75 |
| | 12-inch | 2.10 | Fb | Operating lever | .20 |
| | 16-inch | 2.50 | Gb | Worm wheel | .75 |
| R | Swivel stud set screw | .02 | Hb | Idler | .20 |
| †S | Armature complete for direct current motors | | Ib | Worm gear shaft | .10 |
| | 12-inch 110 volts | 5.00 | Jb | Screw for operating lever | per 100 .75 |
| | 220 volts | 5.50 | Kb | Brush-holder complete | per set 1.00 |
| | 16-inch 110 volts | 5.50 | Lb | Brush-holder field terminal nut | per 100 1.75 |
| | 220 volts | 6.50 | Mb | Brush-holder cap | .15 |
| T | Commutator | 1.00 | Nb | Worm | .20 |
| U | Armature shaft washer | per 100 .35 | Ob | Set screw for worm | .03 |
| †V | Motor cap { alternating current | 1.35 | Pb | Oil cup | .10 |
| | { direct current | 1.75 | Qb | Bearing lining | .20 |
| W | Cap monogram | per 100 2.50 | Rb | Screw for motor cap, direct current | per 100 .75 |
| †X | Field complete for alternating current motors | | Sb | Oil filler for rear operating bearing | .04 |
| | 12-inch 60 cycle 110 volts | 7.50 | Tb | Steel ball lock for operating lever | per 100 .35 |
| | 60 cycle 220 volts | 8.50 | Ub | Binding post for switch base | .08 |
| | 40 cycle 120 volts | 8.00 | Vb | Switch contact nut | per 100 1.00 |
| | 25 cycle 110 volts | 9.00 | Wb | Rear bearing oil collar for oscillator | .04 |
| | 16-inch 60 cycle 110 volts | 8.50 | Xb | Oil wick collar | .04 |
| | 60 cycle 220 volts | 9.50 | Yb | Under pivot for motor body | per 100 1.75 |
| | 40 cycle 120 volts | 9.00 | Zb | Oil wick | per 100 3.00 |
| | 25 cycle 110 volts | 9.50 | Ac | Oil wick spring | per 100 2.00 |
| Y | Yoke for motors except oscillating | 1.00 | Bc | Top pivot set screw | per 100 2.00 |
| Z | Thumbscrew for yoke and frame | .10 | Cc | Brush | .15 |
| Aa | Thumbscrew for yoke and base | .10 | Dc | Brush spring | .02 |
| Ba | Yoke for oscillating motors | 1.50 | Ec | Field terminal screw for switch base | .04 |
| Ca | Yoke ring pivot screw | .03 | Fc | Switch contact plug with nut and washers | .04 |
| Da | Yoke ring for oscillator | 2.50 | Gc | Bearing ring | per 100 1.50 |
| Ea | Screw pin for connecting rod | .03 | Hc | Bearing clamp | per 100 3.00 |
| Fa | Bottom pivot bearing | .03 | Ic | Crank disk pin | per 100 .75 |
| Ga | Regulating switch less coil | .80 | Jc | Main gear pin | per 100 1.50 |
| †Ha | Resistance unit for direct current motors | | Kc | Washer for operating lever | per 100 .35 |
| | 12-inch 110 volts | .35 | Lc | Ratchet for oscillator | .25 |
| | 220 volts | .35 | Mc | Ratchet pin | per 100 1.75 |
| | 16-inch 110 volts | .35 | Nc | Washer for idler screw | per 100 .35 |
| | 220 volts | .35 | Oc | Idler screw | .04 |
| | | | Pc | Base plate screw | per 100 .35 |

* State size twelve- or sixteen-inch.

† State rating and serial number of motor.

SUPPLY PARTS FOR ALTERNATING AND DIRECT CURRENT
CEILING FANS



SUPPLY PARTS FOR ALTERNATING AND DIRECT CURRENT
CEILING FANS

In ordering give name of part, reference letter and serial number of motor

| | LIST PRICE | | | List Price |
|--|------------|------------|--|------------|
| | Plain | Ornamental | | |
| *A Frame complete with field . . . | \$19.50 | \$23.50 | Z Oil can | \$0.15 |
| *Frame only | 6.50 | 8.00 | Aa Hanger hook | .08 |
| †B Frame | 5.50 | 7.00 | Ba Hanger pin | .05 |
| *C Single field coil | .35 | | Ca Spring cotter for hanger pin . . . per 100 | .50 |
| †D Single field coil | 1.50 | | Da Hanger complete | .65 |
| †E Field complete { 105 v. | 9.00 | | Ea Hanger insulator | .04 |
| with coils { 220 v. | 10.00 | | Fa Regulator coil | 1.50 |
| †F Screw for field per 100 | .75 | | Ga Brush-holder cap | .08 |
| G Shaft | 1.15 | | Ha Brush-holder complete | .50 |
| H Set screw for shaft per 100 | 1.75 | | Ia Lead clip per 100 | 1.75 |
| I Coil clamp per 100 | .75 | | Ja Screw for regulator coil per 100 | .65 |
| J Cover—direct current | 1.50 | | Ka Brush | .15 |
| Cover—alternating current | 1.75 | | La Brush spring per 100 | 1.75 |
| *K Armature | 11.00 | | Ma Binding post washer per 100 | 2.50 |
| †L Armature complete { 105 v. | 19.00 | | Na Cover screw per 100 | .35 |
| with commutator { 220 v. | 20.00 | | Oa Soft rubber bushing per 100 | 1.50 |
| M Commutator | 2.50 | | Pa Brush-holder set screw per 100 | 3.50 |
| N Blade-holder screw per 100 | .50 | | Qa Lower canopy screw per 100 | 1.75 |
| O Switch support | 1.00 | | Ra Binding post complete | .30 |
| *P Motor canopy | .75 | | Sa Switch screw per 100 | .50 |
| †Q Motor canopy | .50 | | Ta Switch screw washer per 100 | 1.50 |
| R Ceiling canopy | 1.15 | | Ua Screw plug | .08 |
| S Set screw for ceiling canopy per 100 | 1.75 | | Va Set screw for switch support | .05 |
| T Blade | .75 | | Wa Lead washer for shaft and switch support. per 100 | 1.50 |
| U Blade-holder | .55 | | Xa Set screw for suspension per 100 | 3.50 |
| V Blade screw per 100 | .50 | | Ya Leather washer for bearing per 100 | 3.00 |
| W Switch key | .06 | | Za Upper bearing washer | .55 |
| X Switch cover | .08 | | Ab Ball bearing | .30 |
| †Y Cat. No. 62410 | .50 | | Bb Lower bearing washer | .55 |
| Cat. No. 62411 | .82 | | Cb Set screw for hanger per 100 | 1.75 |
| Cat. No. 62412 | .82 | | | |

* For alternating current motor.

† For direct current motor.

‡ Switch complete.

§ For ornamental motors.

ADJUSTABLE SUSPENSIONS FOR ORNAMENTAL TYPE CEILING FANS

| Style | Height of Ceiling | Length of Hanger |
|-------|-------------------|------------------|
| A | 10 to 11 ft. | 19 to 28 in. |
| B | 10½ to 12 ft. | 24 to 40 in. |
| C | 12 to 15 ft. | 42 to 76 in. |
| D | 15 to 18 ft. | 60 to 112 in. |

The suspensions specified above for various ceiling heights may be adjusted so that the switch handle of the motor will be approximately 7 ft. 6 in. from the floor. Adjustable suspensions will be furnished only when specified on the order and at an extra price. Special hooks for conduit boxes and fixture studs will be furnished at an extra price.

WIRING DEVICES

The utility and convenience of electric fans may be greatly increased by the use of proper outlets and attaching plugs.

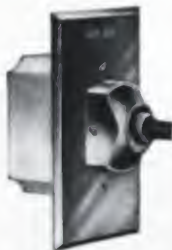
The General Electric Company manufactures a complete line of such devices, pleasing in appearance and thoroughly reliable. The following are some of the more important devices:

REMOVABLE FLUSH WALL RECEPTACLE



This device is furnished in four parts—box, receptacle, plate and plug. The box is permanently installed in the wall or base-board, the receptacle is inserted and the plate screwed in place. If desired, the receptacle can be pulled out and a G-E

removable switch mechanism substituted, making a double-pole or three-way flush, push-button switch, the plate being the same for both receptacle and switch. The plug is fastened to the wire lead of the fan or other portable, and can be inserted in or removed from the receptacle at will.



DOUBLE DOOR FLUSH WALL RECEPTACLE

When installed in the wall or base-board only the small porcelain flange of the plug is visible. Two perfectly fitting doors in the plate open when the plug to which the fan lead is attached, is removed, and are closed after the plug is inserted. The principal advantage of this type of receptacle is that the plug when in place is flush with the wall.



Cat. No. 36817

MISCELLANEOUS RECEPTACLES

The accompanying illustrations show two other types of G-E flush receptacles and plate for use with them. Cat. No. 36817 takes any standard attaching plug while Cat. No. 49490 is used with G-E standard separable caps, similar to Cat. No. 49487. These caps are furnished in porcelain, black moulded material and moulded material with brass cover.



Cat. No. 49490



Cat. No. GE286



Cat. No. 49487

MISCELLANEOUS RECEPTACLES (Continued)



Cleat, Cat. No. 49488



Concealed
Cat. No. 49489



Miniature
Swivel Plug
Cat. No. GE002



Cat. No. 59805

When any of the above receptacles are to be mounted on white woodwork, white G-E enameled plates are recommended. The enamel finish on these plates will not chip, crack or turn yellow with age.

For use in office buildings and places where appearance is not such an important feature, the surface type of separable receptacle may be used. These devices are cheaper than the flush type and are neat and inconspicuous. They are furnished for cleat, moulding and concealed work and for use in conduit boxes. All take the same caps as Cat. No. 49490.

MINIATURE SWIVEL AND MINIATURE SEPARABLE ATTACHING PLUGS

Both of these plugs are ideal for use with electric fans. The miniature swivel plug may be screwed into a socket or receptacle without any twisting of the cord. The screw shell and ring swivels freely, allowing the plug body, to which the lead is attached, to remain stationary. The miniature separable plug embodies another method of preventing the cord from twisting. After the plug body is screwed into a socket the separable cap is inserted.



Conduit Box
Cat. No. GE700



Moulding
Cat. No. GE064



Miniature
Separable Plug
Cat. No. GE062

COMBINED SOCKET AND SEPARABLE ATTACHING PLUG

Conditions sometimes arise in installing electric fans where the number of outlets is only such as is actually needed for the lamps in use. In such cases the device shown in the accompanying illustration is recommended. With this device the lamps can be used in the receptacle and the electric fan attached or detached independently of the lamp.

GENERAL ELECTRIC COMPANY

PRINCIPAL OFFICES, SCHENECTADY, N. Y.

SALES OFFICES

(Address nearest office)

| | |
|----------------------|---|
| Atlanta, Ga. | Third National Bank Building |
| Baltimore, Md. | Electrical Building |
| Birmingham, Ala. | Brown Marx Building |
| Boise, Idaho | Idaho Building |
| Boston, Mass. | 84 State Street |
| Buffalo, N. Y. | Electric Building |
| Butte, Mont. | Electric Building |
| Charleston, W. Va. | Charleston National Bank Building |
| Charlotte, N. C. | Commercial National Bank Building |
| Chattanooga, Tenn. | James Building |
| Chicago, Ill. | Monadnock Building |
| Cincinnati, Ohio | Provident Bank Building |
| Cleveland, Ohio | Citizens Building |
| Columbus, Ohio | Columbus Savings & Trust Building |
| Davenport, Iowa | Security Building |
| Dayton, Ohio | Schwind Building |
| Denver, Colo. | First National Bank Building |
| Detroit, Mich. | Dime Savings Bank Building (Office of Soliciting Agent) |
| Elmira, N. Y. | Hulett Building |
| Erie, Pa. | Marine National Bank Building |
| Fort Wayne, Ind. | Fort Wayne Works |
| Hartford, Conn. | Hartford National Bank Building |
| Indianapolis, Ind. | Traction Terminal Building |
| Jacksonville, Fla. | Heard National Bank Building |
| Joplin, Mo. | Miners' Bank Building |
| Kansas City, Mo. | Dwight Building |
| Keokuk, Iowa | Monarch Building |
| Knoxville, Tenn. | Bank & Trust Building |
| Los Angeles, Cal. | 124 West Fourth Street |
| Louisville, Ky. | Starks Building |
| Madison, Wis. | Fort Wayne Works |
| Memphis, Tenn. | Randolph Building |
| Milwaukee, Wis. | Public Service Building |
| Minneapolis, Minn. | 410 Third Ave., North |
| Nashville, Tenn. | Stahlman Building |
| New Haven, Conn. | Second National Bank Building |
| New Orleans, La. | Maison-Blanche Building |
| New York, N. Y. | 30 Church Street |
| Niagara Falls, N. Y. | Gluck Building |
| Omaha, Neb. | Union Pacific Building |
| Philadelphia, Pa. | Witherspoon Building |
| Pittsburg, Pa. | Oliver Building |
| Portland, Ore. | Electric Building |
| Providence, R. I. | Union Trust Building |
| Richmond, Va. | Virginia Railway & Power Building |
| Rochester, N. Y. | Granite Building |
| St. Louis, Mo. | Pierce Building |
| Salt Lake City, Utah | Newhouse Building |
| San Francisco, Cal. | Rialto Building |
| Seattle, Wash. | Colman Building |
| Spokane, Wash. | Paulsen Building |
| Springfield, Mass. | Massachusetts Mutual Building |
| Syracuse, N. Y. | Onondaga County Savings Bank Building |
| Toledo, Ohio | Spitzer Building |
| Washington, D. C. | Evans Building |
| Youngstown, Ohio | Wick Building |

For TEXAS, OKLAHOMA and ARIZONA Business refer to

Southwest General Electric Co. (Formerly Hobson Electric Co.)

| | |
|----------------------|----------------------------|
| Dallas, Tex. | 1701 N. Market Street |
| El Paso, Tex. | 500-2 San Francisco Street |
| Houston, Tex. | Third and Railroad Streets |
| Oklahoma City, Okla. | Insurance Building |

FOREIGN SALES OFFICES { Schenectady, N. Y., Foreign Dept.
New York, N. Y., 30 Church Street

London, E. C., England, 83 Cannon Street

For all CANADIAN Business refer to

Canadian General Electric Co., Ltd., Toronto, Ont.

